

Amendment to the claims

Please amend claims 12-14, 16, 18, 20, 23 and 25 as shown in the following listing of claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

1-11. (canceled).

12. (currently amended) A communication system, comprising:
a base station; and
a communication device for communicating with said base station,
~~station~~; said communication device including:
an amplifier which outputs an RF signal having a frequency; ~~and~~
a DC/DC converter connected to a power supply and adapted to
provide a voltage to the amplifier to vary a power of the signal, the DC/DC
converter is exclusively controlled in dependence of said frequency to vary the
voltage provided by the amplifier; and
a controllable switch connected to the power supply and the amplifier
to directly connect the power supply to the amplifier.

13. (currently amended) The communication system of claim 12, wherein said
communication device includes ~~include~~ a memory which stores data for
controlling said power.

14. (currently amended) The communication system of claim 12, further
comprising a comparator for comparing a level of said RF signal with a desired
signal level, said comparator being connected to an output of said amplifier to
receive said RF signal from said amplifier.

15. (previously presented) The communication system of claim 14, wherein
said desired signal level is provided by said base station.

1 16. (currently amended) A communication system, comprising:
2 an amplifier which outputs an RF signal having a frequency; ~~and~~
3 a DC/DC converter connected to a power supply and adapted to
4 provide a voltage to the amplifier to vary a power of the RF signal, the DC/DC
5 converter having a control input adapted to receive a control input value; and
6 a controllable switch connected to the power supply and the amplifier
7 to directly connect the power supply to the amplifier,
8 wherein the control input value applied to the DC/DC converter is
9 exclusively controlled in dependence of said frequency to vary the voltage
10 provided to the amplifier.

1 17. (previously presented) The communication device of claim 16, further
2 comprising memory which stores data for controlling said power.

1 18. (currently amended) The communication device of claim 16, further
2 comprising a comparator for comparing a level of said RF signal with a desired
3 signal level, said comparator being connected to an output of said amplifier to
4 receive said RF signal from said amplifier.

1 19. (previously presented) The communication device of claim 18, wherein
2 said desired signal level is provided by a communication apparatus that
3 communicates with said communication device.

1 20. (currently amended) A method for controlling a power of a communication
2 device comprising:
3 amplifying signal to output an RF signal having a frequency using an
4 amplifier; and
5 varying a power of the RF output signal in dependence of said
6 frequency by controlling a DC/DC converter connected to a power supply and
7 adapted to provide a voltage to the amplifier and having a control input adapted to
8 receive a control input value, the control input value being exclusively controlled
9 in dependence of said frequency to vary the voltage provided to the amplifier; and

10 maximizing the power of the RF signal by directly connecting the
11 amplifier to the power supply using a controllable switch connected to the power
12 supply and the amplifier.

1 21. (previously presented) The method of Claim 20, further comprising storing
2 data for controlling said power in a memory.

1 22. (previously presented) The method of Claim 20, further comprising
2 comparing a level of said RF output signal with a desired signal level.

1 23. (currently amended) The method of claim 22, further comprising providing
2 said desired signal level by a communication apparatus that communicates
3 ~~communications~~ with said communication device.

1 24. (previously presented) The system of claim 12, wherein the voltage
2 provided by the DC/DC converter to the amplifier is a supply voltage for the
3 amplifier and wherein the communication device further includes a capacitor
4 connected between a line carrying the voltage to the amplifier, and ground.

1 25. (currently amended) The system of claim 14, wherein the communication
2 device further includes a dissipative regulator means adapted to receive an output
3 of the comparator and to fine-tune the voltage provided from the DC/DC
4 converter to the amplifier in response to the output of the comparator, said
5 dissipative regulator means including a variable resistor.

1 26. (previously presented) The communication device of claim 16, wherein the
2 voltage provided by the DC/DC converter to the amplifier is a supply voltage for
3 the amplifier and wherein the communication device further includes a capacitor
4 connected between a line carrying the voltage to the amplifier, and ground.

1 27. (previously presented) The communication device of claim 18, wherein the
2 communication device further includes a dissipative regulator means adapted to
3 receive an output of the comparator and to fine-tune the voltage provided from the
4 DC/DC converter to the amplifier in response to the output of the comparator.

1 28. (previously presented) The method of claim 20, further comprising
2 filtering ripple from the voltage provided from the DC/DC converter to the
3 amplifier by means of a capacitor connected between a line carrying the voltage to
4 the amplifier, and ground.

1 29. (previously presented) The method of claim 22, further comprising fine-
2 tuning the voltage provided from the DC/DC converter to the amplifier in
3 response to the output of the comparison.